



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

## Trace Analysis, Inc.

Certificate of Analysis Number:

**07010586**

<b>Report To:</b>  Trace Analysis, Inc. Neil Green 6701 Aberdeen Avenue Suite 9 Lubbock TX 79424- ph: (806) 794-1296      fax:	<b>Project Name:</b> 113421 <b>Site:</b> Lubbock, TX <b>Site Address:</b>  <b>PO Number:</b> <b>State:</b> Texas <b>State Cert. No.:</b> T104704205-06-TX <b>Date Reported:</b> 1/22/2007
---	--

This Report Contains A Total Of 7 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/23/2007

Date



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

Case Narrative for:  
**Trace Analysis, Inc.**

Certificate of Analysis Number:

**07010586**

<b>Report To:</b>  Trace Analysis, Inc. Nell Green 6701 Aberdeen Avenue Suite 9 Lubbock TX 79424- ph: (806) 794-1296      fax:	<b>Project Name:</b> 113421 <b>Site:</b> Lubbock, TX <b>Site Address:</b>  <b>PO Number:</b> <b>State:</b> Texas <b>State Cert. No.:</b> T104704205-06-TX <b>Date Reported:</b> 1/22/2007
---	--

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry " ).

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

07010586 Page 1

1/23/2007

Erica Cardenas  
Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

Trace Analysis, Inc.

Certificate of Analysis Number:

**07010586**

**Report To:** Trace Analysis, Inc.  
Nell Green  
6701 Aberdeen Avenue  
Suite 9  
Lubbock  
TX  
79424-  
ph: (806) 794-1296 fax: (806) 794-1298

**Project Name:** 113421  
**Site:** Lubbock, TX  
**Site Address:**  
**PO Number:**  
**State:** Texas  
**State Cert. No.:** T104704205-06-TX  
**Date Reported:** 1/22/2007

**Fax To:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
113421	07010586-01	Water	1/9/2007	1/12/2007 10:00:00 AM		<input type="checkbox"/>

1/23/2007

Erica Cardenas  
Project Manager

Date

Joel Grice  
Laboratory Director  
  
Ted Yen  
Quality Assurance Officer



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

Client Sample ID: 113421

Collected: 01/09/2007 0:00

SPL Sample ID: 07010586-01

Site: Lubbock, TX

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE HYDROCARBONS - GLYCOL			MCL	SW8015B	Units: mg/L		
Ethylene Glycol	ND		20	1	01/18/07 16:29	MNR	3637790
Surr: Isobutanol	114		% 50-150	1	01/18/07 16:29	MNR	3637790

**Qualifiers:**  
ND/U - Not Detected at the Reporting Limit  
B - Analyte detected in the associated Method Blank  
\* - Surrogate Recovery Outside Advisable QC Limits  
J - Estimated Value between MDL and PQL  
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)  
D - Surrogate Recovery Unreportable due to Dilution  
MI - Matrix Interference

# *Quality Control Documentation*



# Quality Control Report

HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

## Trace Analysis, Inc. 113421

Analysis: Semivolatile Hydrocarbons - Glycol  
Method: SW8015B

WorkOrder: 07010586  
Lab Batch ID: R190001

### Method Blank

### Samples in Analytical Batch:

RunID: HP\_T\_070118B-3637786 Units: mg/L  
Analysis Date: 01/18/2007 14:32 Analyst: MNR

Lab Sample ID Client Sample ID  
07010586-01A 113421

Analyte	Result	Rep Limit
Ethylene Glycol	ND	10
Surr: Isobutanol	89.1	50-150

### Laboratory Control Sample (LCS)

RunID: HP\_T\_070118B-3637785 Units: mg/L  
Analysis Date: 01/18/2007 14:09 Analyst: MNR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Ethylene Glycol	400	418	105	61	135

### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07010584-01  
RunID: HP\_T\_070118B-3637788 Units: mg/L  
Analysis Date: 01/18/2007 15:43 Analyst: MNR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylene Glycol	ND	200	223	111	200	227	114	2.17	20	25	151

**Qualifiers:** ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution  
J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

07010586 Page 5

1/23/2007 1:57:14 PM

*Sample Receipt Checklist  
And  
Chain of Custody*



HOUSTON LABORATORY  
8880 INTERCHANGE DRIVE  
HOUSTON, TX 77054  
(713) 660-0901

### Sample Receipt Checklist

Workorder:	07010586	Received By:	AE
Date and Time Received:	1/12/2007 10:00:00 AM	Carrier name:	UPS
Temperature:	3.5°C	Chilled by:	Water Ice

- |  |   |                             |  |
|--|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>               |
| 2. Custody seals intact on shipping container/cooler?        | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/>    |
| 3. Custody seals intact on sample bottles?                   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/>    |
| 4. Chain of custody present?                                 | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 5. Chain of custody signed when relinquished and received?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 6. Chain of custody agrees with sample labels?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 7. Samples in proper container/bottle?                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 8. Sample containers intact?                                 | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 9. Sufficient sample volume for indicated test?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 10. All samples received within holding time?                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 11. Container/Temp Blank temperature in compliance?          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| 12. Water - VOA vials have zero headspace?                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | VOA Vials Not Present <input type="checkbox"/>     |
| 13. Water - Preservation checked upon receipt (except VOA*)? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

\*VOA Preservation Checked After Sample Analysis

SPL Representative:   
Client Name Contacted:

Contact Date & Time:

Non Conformance  
Issues:

Client Instructions:



